

Drinking water, sanitation, hygiene, and health conditions in India: Findings from the national sample survey

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ABSTRACT

Introduction: Uncertainty exists in the drinking water, sanitation, hygiene, and health conditions due to mosquitoes and flies across India. Therefore, this study aimed to assess the availability of drinking water, sanitation, hygiene, and health in India. **Methods:** We used secondary analysis data on 95,548 household members from the National Sample Survey, which included 113,822 homes and 555,351 persons across India between June 2017 and 2018. **Results:** About 36.4% of household members stated that tube wells or boreholes outside the property at a distance of less than 0.2 km were their main source of drinking water. More than 87% of respondents said that the water they drank was free of impurities, and 55.1% said that it had not been treated. About 45.7% of respondents stated that there were no bathrooms in the dwellings. More than 50% of the time, according to the respondents, garbage was not collected. A flea or mosquito problem was reported by about 97% of households. Around 97% of households reported fevers that were caused by a disease. **Conclusion:** In India, poor access to drinking water, sanitary facilities, good hygiene, and healthcare existed. The results will support the next visionary programs to increase living standards in the country.

Keywords: Environment, garbage, health, hygiene, sanitation, toilet facility, water

Introduction

One of the most significant measures of a nation's socio-economic progress is the quality of its population's housing.^[1] Along with the need for shelter, various amenities in the micro-environment of housing, such as the type of dwelling unit, drinking water, sanitation, and hygiene, play a crucial role in the population's health and overall quality of life.^[2-3] Thus, statistical data on housing conditions in qualitative and quantitative terms are required regularly to analyze the housing stock and develop hygienic housing policies and programs to improve quality of life.^[4]

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Generally speaking, living conditions differ from one nation to another.^[5] In tropical nations like India, where the middle class accounts for about 600 million of the population, the variation can be noticed.^[6] This middle-class population's significant income inequality demonstrates India's wide geographic disparities.^[7] Additionally, due to unsanitary water, food, and sanitation, tropical environments increase the risk of sickness, particularly when it comes to micro-biological contamination via flies and mosquitoes.^[8-9] As a result, microbial food- or water-borne infections are among the most important public health problems in the modern period. Food poisoning, skin-wound infections, and disease outbreaks are only a few of the major health dangers posed by microbial contamination of water, food, food items, and other environmental factors.^[10] In addition, microbial contamination contributes to the movement and spread of bacteria that are resistant to antibiotics.^[11]

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